09756346
Michael J. Simitoski
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"gsm system security study"
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gsm sres rand a3 a8 registration
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ACM

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Subscriber Identity Module - Wikipedia, the free encyclopedia
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www.mobiledia.com/glossary/241.html - 62k - Cached - Similar pages

TopXML : **Subscriber Identity** Modules, and Why They Matter
... **Subscriber Identity** Modules, and Why They Matter. Bill Ray, Network 23 Limited. ... Every **GSM** phone includes within it some form of **SIM**, in one of two formats. ...
www.topxml.com/wap/articles/**gsm_sim**/default.asp - 25k - Aug 1, 2004 - Cached - Similar pages

TopXML : **Subscriber Identity** Modules, and Why They Matter
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Wireless Glossary: **Subscriber Identity** Module (**SIM**)
... **Subscriber Identity** Module (**SIM**). A **SIM** is the smart card inside a **GSM** phone that identifies the user account to the network, handles authentication and ...
www.devx.com/wireless/Door/11314 - 31k - Aug 1, 2004 - Cached - Similar pages

France **sim**, spain cellular phone
... **SIM** (**Subscriber Identity** Module) card is about the size of a postage stamp, with embedded circuitry on one side of its surface, which when inserted into a **GSM** ...
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Telestial - Global Cell Phone Rental
... **SIM** Cards -- **SIM** (**Subscriber Identity** Module) cards are the brains of the cell phone. It is the **SIM** card that establishes your **GSM** cell phone number, provides ...
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Secure **GSM** & CDMA Mobile Phones Prevent Bugging
... Subscriber Identity Module (**SIM**) The **SIM** contains the IMSI, the individual subscriber authentication ... The **GSM** handset contains the ciphering algorithm (A5). ...
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Network Working Group B. Aboba Request for Comments: 2486 ...
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Roxen Community: RFC 2486 The **Network Access Identifier** (Standards ...
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community.roxen.com/developers/idocs/rfc/rfc2486.html - 27k - Cached - Similar pages

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... domains with AAA servers. AAA servers today identify clients by using the **Network Access Identifier** (NAI). Our proposal defines ...
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RFC3846: Mobile IPv4 Extension for Carrying Network Access ...
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www.freeos.com/clickthru. php?url=http://rfc3846.x42.com%2F%22 - 18k - Cached - Similar pages

The **Network Access Identifier**
... SmartPipes. J. Arkko. Ericsson. P. Eronen. Nokia. July 17, 2004. The **Network Access Identifier**. draft-arkko-roamops-rfc2486bis-02. Status of this Memo. ...
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gsm <and> (a3 <or> a8) <and> authentication Search

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 **Extension of authentication protocol for GSM**
Lee, C.-C.; Hwang, M.-S.; Yang, W.-P.;
Communications, IEE Proceedings- , Volume: 150 , Issue: 2 , April 2003
Pages:91 - 95

[Abstract] [PDF Full-Text (609 KB)] **IEE JNL**

Published since January 1965 and Published before April 2000
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1 Enhanced privacy and authentication for the global system for mobile communications
Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang
July 1999 **Wireless Networks**, Volume 5 Issue 4

Full text available: pdf(204.97 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...

2 Cryptographic security Techniques for wireless networks
Danai Patiyoot, S. J. Shepherd
April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, index terms

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

Keywords: cryptographic, security, wireless

3 Security planning for personal communications
Dan Brown
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Full text available: pdf(396.21 KB) Additional Information: full citation, references, citings, index terms

4 Untraceability in mobile networks

Didier Samfat, Refik Molva, N. Asokan
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
Full text available: pdf(1.20 MB) Additional Information: full citation, references, citings, index terms

Keywords: CDPD, GSM, alias, anonymity, authentication, location privacy, mobility, security

5 Ticket based service access for the mobile user
Bhrat Patel, Jon Crowcroft
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

6 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

7 Efficient and flexible location management techniques for wireless communication systems
Jan Jannink, Derek Lam, Jennifer Widom, Donald C. Cox, Narayanan Shnivakumar
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: pdf(1.27 MB) Additional Information: full citation, references, citings, index terms

8 A rate-based overload control method for the radio channel in PCN
Nikos I. Passas, Lazaros F. Merakos
September 1997 **Wireless Networks**, Volume 3 Issue 4
Full text available: pdf(340.69 KB) Additional Information: full citation, abstract, references, index terms

Third-generation wireless digital communication systems, currently being developed, are intended to integrate all the existing wireless systems and cover a wide range of services, including voice, video and multimedia. A difficult problem towards this direction is the efficient use of the limited available bandwidth. Although considerable improvements have been made recently in transmitter and receiver technology, the capacity of the air interface is still considerably smaller compared to o ...

9 Authentication protocols for personal communication systems
Hung-Yu Lin, Lein Harn
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols**

for computer communication, Volume 25 Issue 4

Full text available: pdf(647.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Masquerading and eavesdropping are major threats to the security of wireless communications. To provide proper protection for the communication of the wireless link, contents of the communication should be enciphered and mutual authentication should be conducted between the subscriber and the serving network. Several protocols have been proposed by standards bodies and independent researchers in recent years to counteract these threats. However, the strength of these protocols is usually weakene ...

10 Tutorial paper: GSM network signaling

Yi-Bing Lin

July 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 2

Full text available: pdf(678.57 KB) Additional Information: full citation, abstract, references

GSM is a wireless digital signaling network standard designed by standardization committees from the major European telecommunications operators and manufacturers. This article introduces the software platform for GSM network signaling protocol called Mobile Application Part (MAP). We describe the MAP services, the MAP protocol machine, the MAP dialog model, and then illustrate the MAP specific service primitives by an example.

11 The KryptoKnight family of light-weight protocols for authentication and key distribution

Ray Bird, Inder Gopal, Amir Herzberg, Phil Janson, Shay Kutten, Refik Molva, Moti Yung

February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1

Full text available: pdf(1.64 MB) Additional Information: full citation, references, citings, index terms, review

12 Security on the move: indirect authentication using Kerberos

Armando Fox, Steven D. Gribble

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms

13 PCS mobility management using the reverse virtual call setup algorithm

Chih-Lin I, Gregory P. Pollini, Richard D. Gitlin

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Full text available: pdf(280.50 KB) Additional Information: full citation, references, citings, index terms

Keywords: PCS, mobility management, personal communications, reverse virtual call setup

14 Interworking between Digital European Cordless Telecommunications and a distributed packet switch

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellstern

February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Digital European Cordless Telecommunications (DECT) standard specifies an air

interface. DECT requires an external infrastructure to transfer information between wireless terminals, and to transfer information between a wireless terminal and a fixed network. The Public Switched Telephone Network, the GSM Cellular Network, Private Branch Exchanges and mobile data networks are all under investigation as DECT backbone networks. In this paper we look to the future and describe interworking ...

15 Undeniable billing in mobile communication

Jianying Zhou, Kwok-Yan Lam

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(864.03 KB) Additional Information: full citation, references, index terms

Keywords: cryptographic protocol, mobile communication security, non-repudiation, undeniable billing

16 Low power scalable encryption for wireless systems

James Goodman, Anantha P. Chandrakasan

January 1998 **Wireless Networks**, Volume 4 Issue 1

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract, references, index terms

Secure transmission of multimedia information (e.g., voice, video, data, etc.) is critical in many wireless network applications. Wireless transmission imposes constraints not found in typical wired systems such as low power consumption, tolerance to high bit error rates, and scalability. A variety of low power techniques have been developed to reduce the power of several encryption algorithms. One key idea involves exploiting the variation in computation requirements to dynamically vary th ...

17 Reflection as a mechanism for software integrity verification

Diomidis Spinellis

February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1

Full text available: pdf(85.99 KB) Additional Information: full citation, abstract, references, index terms, review

The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...

Keywords: cryptographic hash function, embedded device, message digest

18 Traffic impacts of international roaming on mobile and personal communications with distributed data management

Jyhi-Kong Wey, Wei-Pang Yang, Lir-Fang Sun

December 1997 **Mobile Networks and Applications**, Volume 2 Issue 4

Full text available: pdf(728.69 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we propose four network interconnection scenarios and the related signaling aspects for the international roaming traffic in mobile and personal communications. With or without international gateway relay nodes summarized from the proposed scenarios, we also

derive three international roaming network sets {IR1, IR2, IR3} for the observed signaling traffic model with two-level databases. Based on the proposed perfo ...

19 Standardizing information technology security
Warwick Ford
June 1994 **StandardView**, Volume 2 Issue 2
Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

20 Database and location management schemes for mobile communications
Anna Hać, Bo Liu
December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6
Full text available: pdf(264.51 KB) Additional Information: full citation, references, index terms

Keywords: GSM, broadcast, cost, mobility management, partition, routing, switching

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-	2	(("5729537") or ("5864757")).PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 10:38
-	50	haverinen.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 10:50
-	3	"20000760"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 10:51
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-	5	((honkanen-jukka-pekka).in.) not haverinen.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 10:55
-	0	pirkkala.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 10:56
-	20	asokan-nadarajah.in. not haverinen.in. not (((honkanen-jukka-pekka).in.) not haverinen.in.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 11:01
-	0	helsinki-patrik-flykt.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 11:02
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-		100	"network access identifier" and session	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 11:15
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-		1	((("network access identifier" and session) and authenticat$3) and challenge) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 11:16
-		130	"network access identifier"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 13:16
-		67	"network access identifier" and "subscriber" and mobile	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/07/28 13:16
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-		205	"mobile node" same authenticat$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 07:32
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-		32	("mobile node" same authenticat$3) and (mobile near identity)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 07:27
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-	9	((((("mobile node" same authenticat$3) and (mobile near identity)) and session) and (secret key)) and respon$5	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 07:30
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-	1	("20020012433").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 11:06
-	1	(("20020012433").PN.) and "protection code"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 14:48
-	777	((network adj access adj identifier) NAI) and (mobile gsm)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/02 13:05
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-	244	@ad<20000331 and gsm and authenticat$3 and roam$3 and gateway	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 07:45
-	6	@ad<20000331 and gsm and authenticat$3 and roam$3 and gateway and (authentication adj server)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 07:59
-	5	"1075123"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 07:59
-	1	(("20020012433").PN.) and (rand same triplet)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:49
-	6	rand? same triplets	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 08:46
-	9	@ad<20000331 and "network access identifier"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:15
-	23	@ad<20000331 and (gsm with authentication) same gateway	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 13:01
-	462	@ad<20000331 and (msc same authenticat$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:15
-	34	@ad<20000331 and (msc same rand?? same hlr same authenticat$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:36
-	0	@ad<20000331 and (gsm same "authentication gateway")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:37
-	0	@ad<20000331 and (gsm and "authentication gateway")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:37
-	7	@ad<20000331 and ("authentication gateway")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/03 14:37
-	3	"0002406"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 07:34

L Number	Hits	Search Text	DB	Time stamp
-	25	authenticat$4 adj triplets	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 08:57
-	5550	authenticat$3 same ((more same once) multiple)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 08:58
-	2323	authenticat$3 with ((more same once) multiple)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 08:58
-	302	authenticat$3 with ((more same once))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 08:59
-	93	authenticat$3 with ((twice))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 08:59
-	1	authenticat$4 same (multiple adj challenges)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:03
-	39	authenticat$4 same (multiple adj keys)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:04
-	18	(authenticat$4 same (multiple adj keys)) not ginter.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:06
-	5	((authenticat$4 same (multiple adj keys)) not ginter.in.) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:10
-	6	"challenge vector"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:10
-	1	"challenge vector" same authenticat$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:11
-	16	"multiple secrets"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/04 09:42